

BABAYEV, Nikolay Alekseyevich; GAYEVSKIY, Oleg Konstantinovich;  
IVANNIKOV, Dmitriy Andreyevich; KUDRYAVTSEV, Sergey Ste-  
panovich; MIKIRTUMOV, Manuil Bogdanovich; KHUKHRA, Yu.;  
YEFREMOVA, Ye.V., red.; KARYAKINA, M.S., tekhn. red.

[Airplane modeling; manual for makers of airplane models and  
instructors of circles for the first and second training year]  
Aviatsionnyi modelizm; uchebnoe posobie dlia sviamodelistov i  
rukovoditelei kruzhekov pervogo i vtorogo godov obucheniia.  
Izd. 2., perer. i dop. Pod obshchei red. E.B.Mikirtumova.  
Moskva, Izd-vo DOSAAF, 1960. 286 p. (MIRA 14:5)  
(Airplanes--Models)

STEPANOV, Ye.N., polkovnik, Geroy Sovetskogo Soyuz; KUDRYAVTSEV, S.S.,  
mayor, sud'ya respublikanskoy kategorii

Striving for new flying records. Vest.Vozd.Fl. no.9:78-81 S'60.

1. Vitse-prezident Mezhdunarodnoy aviatsionnoy federatsii  
(for Stepanov).  
(Aeronautics)

KUDRYAVTSEV, S. S.

Kudryavtsev, S. S. "Development of norms and ratios for geese," Trudy Nauch.-  
issled. in-ta ptitsevodstva, Vol. XIX, 1948, p. 66-74 - Bibliog: 6 items

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

KUDRYAVTSEV, S. S.

Kudryavtsev, S. S. "Development of methods of feeding Rhode Island hens on the basis of follow-up on collective farming experiments and laboratory research," Trudy Nauch.-issled. in-ta ptitsevodstva, Vol. XIX, 1948, p. 78-98 - Bibliog: 7 items

SO: U-2888, Metopis Zhurnal'nykh Statey, No. 1, 1949

KUDRYAVTSEV, S. S.

Kudryavtsev, S. S. "Effect of protein and vitamin B<sub>2</sub> on the productiveness and incubation qualities of eggs from hens of the Rhode Island breed," Trudy Nauch.-issled. in-ta ptitsevodstva, Vol. XIX, 1948, p. 99-122 - Bibliog: 8 items

SO: U2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

KUDRYAVTSEV, S.S.

"Calcium and Phosphorous as Factors in the Productivity and Hatching Ability of Poultry." Thesis for degree of Cand. Agricultural Sci. Sub. 15 Jul 49, Sci. Res Inst. of Aviculture, Ministry of Agriculture RSFSR.

Summary 82, 18 Dec. 52 Dissertations Presented for Degrees in Science and Engineering in Moscow is 1949. From Vechernyaya Moskva Jan-Dec. 1949

1. KUDRYAVTSEV, S. S.
2. USSR 600
4. Poultry - Feeding and Feeding Stuffs
7. Feeding domestic fowl during the breeding period, Ptitsevodstvo, No. 1, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

1. KUDRYAVTSEV, S. S.
2. USSR (600)
4. Poultry - Feeding and Feeding Stuffs
7. Problem of establishing protein standards for poultry, Ptitsevodstvo No. 2, 1953.
9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.



KUGRYAVTSEV, T., kand. pedagog. nauk

Creating problem situation as a means of stimulating the students.  
Prof.-tekhn. obr. 22 no.7:17-18 J1 '65. (MIRA 18:8)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR.

KUDRYAVTSEV, T.A.; CHIRKOV, N.M.

Kinetics of the chlorine exchange reaction in isomeric -chloro-  
crotonic acids. Part 2: Chlorine exchange reaction with alkali in  
alcohol solutions [with summary in English]. Zhur.fiz.khim. 33  
no.2:255-261 F '59. (MIRA 12:4)

1. AN SSSR Institut khimicheskoy fiziki, Moskva.  
(Crotonic acid) (Chlorine)

15(2)

AUTHORS: Tikhonov, V. A., Kudryavtsev, T. N. SOV/156-59-2-45/48

TITLE: Iron-Slate-Cement (Zhelezisto-slantsevyy tsement)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya tekhnologiya, 1959, Nr 2, pp 394-397 (USSR)

ABSTRACT: A new binding material, the iron-clay-cement, which surpasses the Portland-cement with regard to strength, frost resistance and other technical characteristics, has been developed at the Chair mentioned under Association. The disadvantage in the production of this iron-clay-cement lies in the fact that the clay component must be burned at 800 degrees. The present article reports on a binding material, which predominantly consists of a material that does not require burning. Menilite-slate from Vyzhnitsa was used for the experiments. The mixture of the cement raw-material consisted of limestone, pyrite cinders and menilite-slate. The analysis data of the raw-materials are shown in table 1. Based on the experiments, the proportion limestone : slate was chosen as 1 : 3. The stress-values when adding 0 - 20% pyrite cinders, are shown in table 2. The compressive strength increases from 220 kg/cm<sup>2</sup>

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Iron-Slate-Cement

SOV/156-59-2-45/48

(at 0% cinders) to  $452 \text{ kg/cm}^2$  (at 15% cinders). In table 3, the stress-values of samples which were left setting for 28 days at room-temperature, are compared with those which were hardened with steam of  $4 \text{ kg/cm}^2$ . When hardening with steam, aluminum-iron-hydrogranates and zeolithes as well as fibrous calciumsilicate are formed. The tensile strength and the bending strength is 1.5 - 2 times higher as in the case of Portland-cement. There are 4 tables and 7 Soviet references.

PRESENTED BY: Kafedra tekhnologii silikatov L'vovskogo politekhnicheskogo instituta (Chair for Technology of Silicates L'vov Polytechnic Institute)

SUBMITTED: November 14, 1958

Card 2/2

TIKHONOV, V.A., prof.; GALABUTSKAYA, Ye.A.; POLUEKTOVA, Ye.F.;  
KUDRYAVTSEV, T.N.; SUVOROVA, O.F.; TOROPOV, N.A., red.;  
KVITKO, I.S., red.

[Laboratory manual on the chemistry of silicon and the physical  
chemistry of silicates] Praktikum po khimii kremniia i fizicheskoi  
khimii silikatov. L'vov, Izd-vo L'vovskogo univ., 1965. 291 p.  
(MIRA 18:9)

1. Chlen-korrespondent AN SSSR (for Toropov).

KUDRYAVTSEV, T.V.; LOMANSKYA, I.S.

Problem of the study of technical thinking. Vop. psikh. no.4:  
3-20 JI-Ag '64. (MIRA 17:11)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR,  
Moskva.

KUDRYAVTSEV, T. V.

"O tekhnicheskoy myshlenii i o sozdaniy problemnykh situatsiy v protsesse yego razvitiya."

report submitted for 15th Intl Cong, Intl Assn of Applied Psychology, Ljubljana, Yugoslavia, 2-8 Aug 1964.

Institut psikhologii, Moskva.

KUDRYAVTSEV, T. V.  
ZINCHENKO, V.P.; KUDRYAVTSEV, T.V.

New Psychology textbook for secondary schools ["Psychology" by  
G.A. Fortunatov, A.V. Petrovskii. Reviewed by V.P. Zinchenko,  
T.V. Kudriavtsev]. Vop.psikhol. 3 no.3:159-164 My-Je '57.

(Psychology--Study and teaching)

(MLRA 10:8)



KUDRYAVTSEV, T.V.

Problem of the application of knowledge in practice [with summary in English]. Vop,psikhol. 5 no.1:23-31 Ja-F '59. (MIRA 12:4)

1- Institut psikhologii APN RSFSR, Moskva.  
(Technical education) (Transfer of training)

KUDRYAVTSEV, V.

Pension certificate is not an old-age diploma. Okhr. truda i  
sots. strakh. no.4:15 Ap '63. (MIRA 16:4)

(Pensioners--Employment)  
(Industrial hygiene)

BRAGIN, N., inzh.; VAZILO, A., inzh.; DZEKTSER, Ye., inzh.; KUDRYAVTSEV, V., inzh.

Use of ground water as source of supply for fire extinction in milled  
peat winning fields. Pozh.delo 9 no.3:14-15 Mr '63. (MIRA 16:4)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy torfyanoy  
promyshlennosti.

(Peat industry—Fires and fire prevention)

KUDRYAVTSEV, V.; TEUSIKHIN, N.

Practice in introducing an hourly-bonus wage system for  
workers in experimental production. Biol.nauch.inform.:  
trud.i zar.plata 3 no.4:31-38 '60. (MIRA 13:8)  
(Machinery—Design) (Bonus system)

KUDRYAVTSEV, V. A.  
CA

11 P

Influence of vernalization upon the response of barley to ammonium and nitrate nitrogen. V. A. Kudryavtsev (Leningrad Inst. of Agr., Compt. rend. akad. nauk S.S.S.R. 53, 157-60(1940). Barley seeds, both vernalized and controls, were grown in Pryanishnikov's nutrient soln. The absorption of both ammonium and nitrate N was observed over a 55-day period beginning with the appearance of leaves. At the beginning of their development the plants from vernalized seeds absorbed slightly more total N than the controls. However, the decline in absorption began earlier with the former so that during the later stages of development the controls absorbed considerably more N. At the beginning the ratio of  $\text{NH}_4^+/\text{NO}_3^-$  absorbed is greater for the vernalized than for the control plants but this relationship is also reversed during the later stages. The possible physiological significance of the data is discussed.

J. P. Dauchy

ASAC METALLURGICAL LITERATURE CLASSIFICATION

GROUP 1: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 2: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 3: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 4: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 5: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 6: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 7: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 8: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 9: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GROUP 10: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

KUDRYAVTSEV, V.A.

Response of barley to the intensity of light following the photo-  
phase. Dokl. AN SSSR 60 no.5:913-916 My '48. (MLRA 10:8)

1. Vologodskiy gosudarstvennyy pedagogicheskiy institut im. V.M.  
Molotova. Predstavleno akademikom N.A. Maksimovym.  
(Barley) (Photoperiodism)

KUDRYAVTSEV, V. A.

USSR/Agriculture - Plant Physiology

Card : 1/1

Authors : Kudryavtsev, V. A.

Title : Importance of light intensity in the process of formation of generative organs of barley

Periodical : Dokl. AN SSSR, 97, Ed. 2, 349 - 352, July 1954

Abstract : The importance of light intensity on the formation of generative organs of barley is discussed. Numerous examples are given showing the favorable effects of light intensity on the growth of barley during various stages of its development. Ten references. Tables, drawing.

Institution : The Agricultural Institute, Voroshilovgrad

Presented by : Academician A. L. Kursanov, April 26, 1954

KUDRYAVTSEV, V. A.

USSR/Biology - Plant physiology

Card 1/1      Pub. 22 - 49/54

Authors : Kudryavtsev, V. A.

Title : Attitude of tomatoes toward intensive light during various phases of formation of reproductive organs

Periodical : Dok. AN SSSR 102/5, 1035-1038, Jun 11, 1955

Abstract : Biological data are presented on the attitude of tomatoes toward intensive light during various phases of formation of the reproductive organs. Twelve USSR references (1938-1954). Table; illustration.

Institution : Ministry of Higher Education, USSR, The Voroshilovgrad Agric. Inst.

Presented by : Academician A. L. Kursanov, April 1, 1955



USSR / Plant Physiology. Growth and Development.

I

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 34306

Author : Kudryavtsev, V. A.

Inst : Voroshilovgrad Agricultural Institute

Title : Importance of Intensity of Light in Processes of Formation of Generative Organs of Barley and Some Other Plants.

Orig Pub : Nauchn. zap. Voroshilovgradsk. s.-kh. in-ta, 1956, 4, No 1  
131-138

Abstract : Plants of barley were darkened by two layers of gauze at the start of the period of formation of tetrads of pollen cells in the spikelets; this delayed full earing of plants by 4 to 5 days and reduced granulation of the ear by up to 18 to 60% compared with control. Darkening during other phases, had lesser effect on the development and productivity of plants. Identical data were obtained with hard wheat.

Card 1/2

USSR / Plant Physiology. Growth and Development

I

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 34306

Experiments with various degrees of darkening, in various periods of development, have shown the following results: the amount of grain in the ear is reduced by less light received during the phases of formation of generative organs. According to the author, the cause for the disturbance of formation processes is due to the difficulty of transportation of plastic substances from the leaves to the forming inflorescences, and to the change in the process of metabolism taking place directly in the ear. Bibliography, 20 titles.  
-- L. D. Prusakova

Card 2/2

DZEKTSER, Ye.S.; KUDRYAVTSEV, V.A.

Water supply systems for fighting fires during the production  
of peat fuels. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.  
nauch. i tekhn.inform. no.3:15-17 '63. (MIRA 16:4)

(Peat industry) (Water supply)

KUDRYAVTSEV, V.A.

Effect of light intensity on the accumulation of dry matter  
and carbohydrate metabolism in tomatoes. Fiziol. rast. 11  
no. 3:409-416 '64. (MIRA 17:7)

1. Kafedra botaniki i fiziologii rasteniy Tselinogradskogo  
sel'skokhozyaystvennogo instituta.

L 25778-65 EWG(j)/EWG(r)/EWT(1)/FS(v)-3/EWG(v)/EWG(a)/EWG(c) Pe-5 DD

ACCESSION NR: AR5000954

S/0299/64/000/020/G003/G003

SOURCE: Ref. zh. Biologiya. Sv. t., Abs. 20G17

AUTHOR: Kudryavtsev, V. A.

TITLE: Light intensity effect on dry substance storage and carbohydrate metabolism of tomatoes

CITED SOURCE: Fiziol. rasteniy, v. 11, no. 3, 1964, 409-416

TOPIC TAGS: tomato plant, light brightness, photosynthesis, carbohydrate metabolism, amino acid ✓

TRANSLATION: The effect of 10 day shading (reducing light by 4 to 6 times in gauze chambers) on dry substance storing rates and levels of certain carbohydrate forms was investigated in various plant organs in vegetation experiments on several varieties of tomato. Storing of dry substance was significantly retarded under poor illumination conditions, but after the shaded plants were moved into natural light, the storing process became far more intensive than in the control. The starch, sugar, and amino acid levels were reduced

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L 25778-65

ACCESSION NR: AR5000954

during shading, especially in the lower tier leaves, root system, /  
and stem (and were reduced least in flower forming tissues). A  
conclusion is drawn that the negative effect of reduced light  
intensity on formation of flower sexual elements and productivity of  
the tomato is related mostly to significant weakening of photosynthe-  
tic activity in the leaves, and this in turn produces a rather acute  
shortage of plastic substances. Tselinograd Agricultural Institute.

SUB CODE: LS

ENCL: 00

Card 2/2

KUDR 'AVTSEV, V.A.; ROKTANEN, Zh.L.

Increase in the resistance of tomatoes to reduced lighting by  
changing the conditions of root feeding. Izv. AN Kazakh. SSR.  
Ser. biol. nauk 2 no.3:20-26 My-Je '64.

(MIRA 17:10)

KUDRYAVTSEV, V.A., aspirant

Ancient formations of the Stanovoy Range. Izv. vys. ucheb.  
zav.; geol. i razv. 8 no. 10:13-17 O '65.

(MIRA 19:1)

1. Moskovskiy geologorazvedochnyy institut imeni Ordzhonikidze.



KUDRYAVTSEV, V.A.; SHVALYUK, V.A.

Dynamic tests of rubber for shock absorbers. Zav.lab. 31  
no.10:1256-1258 '65.  
(MIRA 19:1)

KUDRYAVTSEV, V.A. [Kudriavtsev, V.O.]

Biological properties of pyogenic Staphylococci resistant to  
imanin and novoimanin. Mikrobiol. zhur. 27 no.6:43-48 '65.  
(MIRA 19:1)

1. Institut mikrobiologii i virusologii AN UkrSSR. Submitted  
March 24, 1965.

KUDRYAVTSEV, V.A.

Determining the lower limit of permafrost. Merzlotovedenie 2 no.1:44-47  
'47. (MIRA 11:4)

(Frozen ground)

SAVVL'YEV, B.A., prof., doktor geol.-mineral. nauk; KUDRYAVTSEV, V.A., prof.,  
doktor geol.-mineral. nauk, otvetstvennyy red.; SIL'KIN, B.I., red.

[Investigating the mechanical and physical properties of ice; a  
manual] Izuchenie mekhanicheskikh i fizicheskikh svoistv l'da;  
rukovodstvo. Moskva, Izd-vo Akad. nauk SSSR, 1957. 62 p.

(MIRA 11:8)

1. Russia (1923- U.S.S.R.) Mezhdunarodnyy komitet po  
provedeniyu Mezhdunarodnogo geofizicheskogo goda.  
(Ice--Testing)

KUDRYAVTSEV, V.A.

Effect of the petrological composition and moisture content of  
soils on their temperature conditions. Vest.Mosk.un.Ser.biol.,  
pochv.,geol.,geog. 13 no.4:3-7 '58. (MIRA 12:4)

1. Kafedra merslotovedeniya Moskovskogo universiteta.  
(Soil temperature)

KUDRYAVTSEV, V.A.

Method for approximate determination of average annual ground temperatures in permafrost surveying, based on simultaneous measuring of ground temperatures in boreholes. Nauch.dokl.vys.shkoly; geol.-geog.nauki no.1:160-162 '59. (MIRA 12:6)

1. Moskovskiy universitet, geologicheskiy fakul'tet, kafedra merzlotovedeniya.

(Earth temperature) (Frozen ground)

KUDRYAVTSEV, V.A., professor.

Training of specialists in permafrost research at the Moscow University. Vest. Mosk. un. Ser. biol., pochv., geol., geog. 14 no.3:237-238 '59. (MIRA 13:6)

1. Zaveduyushchiy kafedroy merzlotovedeniya Moskovskogo universiteta.

(Moscow--Frozen ground--Study and teaching)

KUDRYAVTSEV, V.A. [translator]; MOISEYEVA, V.M. [translator]; TUPITSYN, N.V. [translator]; TSZYAN TSZU-TSZE [Chiang Tsu-chieh] [translator]; PAVLINOV, V.N., prof., red.; SAMARCHYAN, L.M., red.izd-va; POSPELOVA, A.M., red.izd-va; GUROVA, O.A., tekhn.red.

[Transactions of the First Conference on Recent Tectonic Movements in China] Trudy Pervogo soveshchaniia po neotektonike Kitais; sbornik dokladov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane neдр, 1960. 185 p.  
(MIRA 13:12)

1. Soveshchaniye po neotektonike Kitaya, 1st, Peking, 1956.  
(China--Geology, Structural)



GLUKHOVA, V.A. [translator]; KUDRYAVTSEV, V.A. [translator]; MITBRETT,  
B.A. [translator]; MUDROV, B.G. [translator]; SHANTANOV, S.K.  
[translator]; SOKOLOV, D.S., red.; ROMANOVICH, G.P., red.;  
BELEVA, M.A., tekhn.red.

[Regional stratigraphy of China] Regional'naya stratigrafiia  
Kitaia. Pod red. i s predisl.D.S.Sokolova. Moskva, Izd-vo  
inostr.lit-ry, 1960. 657 p. Translated from the Chinese. (MIRA 13:6)  
(China--Geology, Stratigraphic)

KUDRYAVTSEV, V.A.; MELAMED, V.G.

Numerical estimation of heat balance in media with phase transitions as a criterion of temperature shift determination. Izv. AN SSSR. Ser. geofiz. no.12:1796-1800 D '60. (MIRA 13:12)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.  
(Earth temperature)

KUDRYAVTSEV, V. A.

Annual temperature variations in rocks. Merz1. iss1. no.1:  
26-31 '61. (MIRA 16:1)

(Rocks—Thermal properties)

KUDRYAVTSEV, V. A.

Importance of temperature and permafrost zoning in the formation of syngenetic frozen layers having stratified cryogenic structure. Merz1. iss1. no.1:21-25 '61.

(MIRA 16:1)

(Frozen ground)

MELAMED, V. G.; KUDRYAVTSEV, V. A.

Numerical method for calculating the thermal economy of soil  
in multiphase media with mobile phase boundaries. Mersl.  
issl. no.1:32-38 '61. (MIRA 16:1)

(Soil temperature)

KUDRYAVTSEV, V. A.; MELAMED, V. G.; GULIKOV, A. Ye.

Calculating methods and the construction plan of cooling  
installation for petroleum products being pumped into frozen-  
ground reservoirs. Merzl. issl. no.1:307-317 '61.

(MIRA 16:1)

(Frozen ground)

(Petroleum products—Storage)

KUDRYAVTSEV, V.A.; MELAMED, V.G.

New formula for calculating the depth of seasonal freezing and thawing of soils in case of like thermophysical characteristics of frozen and thawed soils. Merzl.issl. no.2:3-17 '61. (MIRA 16:5)  
(Frozen ground)

KUDRYAVTSEV, V.A.; KONDRAT'IEVA, K.A.; VITKINA, N.Kh.

Mapping the seasonal freezing and thawing of ground. Mersl.issl.  
no.2:18-32 '61. (MIRA 16:5)

(Frozen ground--Maps)



KUDRYAVTSEV, V.A.

Tectonics of northeastern China. Biul. MOIP. Otd. geol. 36  
no.2:124-125 Mr-Ap '61. (MIRA 14:7)  
(China--Geology, Structural)

GLUKHOVA, V.A.[translator]; ~~KUDRYAVTSEV, V.A.~~[translator]; MARKOV,  
M.S.[translator]; MOISEYEVA, V.M.[translator]; KELLER, B.M.,  
red.; ROMANOVICH, G.P., red.; KHAR'KOVSKAYA, L.M., tekhn.  
red.

[Ancient rocks of China]Drevneishie porody Kitaia; sbornik  
statei. Moskva, Izd-vo inostr.lit-ry, 1962. 305 p.  
Translated from the Chinese and English. (MIRA 15:9)  
(China--Geology)

BROD, I.O., prof., doktor geol.-miner. nauk; VARSANOF'YEVA, V.A.,  
 prof., doktor geol.-miner. nauk; VELIKOVSKAYA, Ye.M., prof.,  
 doktor geol.-miner. nauk; GORDEYEV, D.I., prof., doktor  
 geol.-miner. nauk; DOBROV, S.A., doktor geol.-miner. nauk  
 [deceased]; KOF, M.I., kand.tekhn.nauk, [deceased]; KUZ'ICHEVA,  
 Ye.I., mladshiy nauchnyy sotr.; KUZNETSOV, Ye.A., prof., doktor  
 geol.-miner. nauk; LEONOV, G.P., prof., doktor geol.-miner. nauk;  
 MENNER, V.V., dotsent, doktor geol.-miner. nauk; HAZARENKO, I.I.,  
 kand. sel'khoz.nauk; POBEDIMSKAYA, Ye.A., assistant; POPOV, S.P.,  
 prof., doktor geol.-miner. nauk; SMIRNOV, V.I.; SMIRNOV, N.N.,  
 prof., doktor geol.-miner. nauk; SMOL'YANINOV, N.A., prof.,  
 doktor geol.-miner. nauk [deceased]; FENIKSOVA, V.V., dotsent,  
 kand.geol.-miner. nauk; SHAFRANOVSKIY, I.I., prof., doktor geol.-  
 miner. nauk; Primali uchastiye: BARSANOV, G.P., prof.,  
 doktor geol.-miner. nauk; BOKIY, G.B.; CORSHKOV, G.P., prof.,  
 doktor geol.-miner. nauk; KUDRYAVTSEV, V.A., prof., doktor  
 geogr. nauk; MARKOV, P.N., dotsent, kand.geol.-miner. nauk;  
 MOROZOV, S.S., prof., doktor geol.-miner. nauk; ORLOV, Yu.A.,  
 akademik; SERGEYEV, Ye.M., prof., doktor geol.-miner. nauk;  
 TVALCHRELIDZE, A.A.; GEORGIYEVA, G.I., tekhn. red.

(Continued on next card)

BROD, I.O.--- (continued) Card 2.

[History of geology at Moscow University] Istoriia geologicheskikh nauk v Moskovskom universitete. Pod red. D.I.Gordeva. Moskva, Izd-vo Mosk. univ., 1962. 351 p. (MIRA 15:7)

1. Moscow. Universitet. Geologicheskii fakul'tet. 2. Chlen-korrespondent Akademii nauk SSSR (for Smirnov). 3. Chlen-korrespondent Sibirskogo otdeleniya Akademii nauk SSSR (for Bokiy ). 4. Deystvitel'nyy chlen Akademii nauk Gruzinskoy SSR (for Tvalchrelidze).

(Moscow University) (Geology--Study and teaching)

KUDRYAVTSEV, Vladimir Aleksandrovich

"Theory of the development of frozen rock masses"

report to be submitted for the Intl. Conference on Permafrost, Purdue Univ.,  
Lafayette, Indiana, 11-15 Nov 63

KUDRYAVTSEV, Vladimir Aleksandrovich, BARANOV, I. Ya.,

"Permafrost rocks of Eurasia"

report to be submitted for the Intl. Conference on Permafrost, Purdue Univ.,  
Lafayette Indiana, 11-15 Nov 63

BONDARENKO, N.I.[translator]; KUDRYAVTSEV, V.A.[translator];  
MITBREYT, B.A.[translator]; SOKOLOV, D.S., red.;  
ROMANOVICH, G.P., red.; BELEVA, M.A., tekhn. red.

[Stratigraphy of China by regions] Regional'naya stratigra-  
fiya Kitaya. Moskva, Izd-vo inostr. lit-ry. No.2. 1963. 272 p.  
Translated from the Chinese. (MIRA 16:6)  
(China--Geology, Stratigraphic)

POLTEV, Nikolay Fedorovich; KUDRYAVTSEV, V.A., prof., red.;  
LOPATINA, L.I., red.; CHISTIAKOVA, R.S., tekhn. red.

[Principles of the surveying of frozen ground (selected  
chapters)] Osnovy merzlotnoi s"emki (izbrannye glavy). Pod  
red. V.A.Kudriavtseva. Moskva, Izd-vo Mosk. univ., 1963.  
98 p. (MIRA 16:10)  
(Frozen ground) (Surveying)



KUDRYAVTSEV, V.A.; MELAMED, V.G.

Formula for calculating the depth of the seasonal freezing  
of soils when the thermophysical characteristics of unfrozen  
and frozen soils differ. Merz. issl. no.3:3-9 '63.  
(MIRA 17:6)

KUDRYAVTSEV, V.A.

Potential seasonal freezing and thawing of rocks. Merz1.  
issl. no.3:10-17 '63. (MIRA 17:6)

KUDRYAVTSEV, V.A.

Standards for the deep setting of foundations in connection  
with the possibility of soil heaving during freezing  
(according to Standards and Technical Requirements 127-55).  
Merzl. issl. no.3:267-275 '63. (MIRA 17:6)

MELANED, V.G.; KUDRYAVTSEV, V.A.; GULIKOV, A.Ye.

Studying the temperature conditions of icehouses used for  
different purposes. Merzl. issl. no.3:276-288 '63.

(MIRA 17:6)

KUDRYAVTSEV, V.A.; MELAMED, V.G.; BAKULIN, V.P.

Forecasting, during operation of the steady-state temperature  
conditions of the dam and foundation bed of the Vilyuy  
Hydroelectric Power Station. Vest. Mosk. un. Ser. 4: Geol 18  
no.5:70-77 S-0'63.  
(MIRA 17:2)

1. Kafedra merzlotovedeniya Moskovskogo universiteta.

KUDRYAVTSEV, V. A.; MELAMED, V. G.

"On calculation of a soil temperature regime at seasonal freezing or thawing of soil."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

Moscow State Univ.

KUDRYAVTSEV, V.A.

Changes of the dynamic modulus of elasticity of rubber in the  
speed function measured during impact. Kauch. i rez. 24 no. 10:39-  
40 '65. (MIRA 18:10)

BONDARENKO, A.S.; ZELEPUKHA, S.I.; FOCHINOK, P.Ya.; NEGRASH, A.K.  
(Negrash, A.K.); KUDRYAVTSEV, V.A.

Antimicrobial properties of *Bidens cernua* L. and *Bidens*  
*tripartita* L. Mikrobiol. zhur. 26 no.1:67-72 '64.

(MIRA 18:11)

1. Institut mikrobiologii AN UkrSSR.



SUSHKEVICH, M.V., inzhener; PAVLOV, M.A.; KUDRYAVTSEV, V.A., redaktor;  
STEBLYANKO, T.V., tekhnicheskiiy redaktor.

[Handbook on the quality control of tractor repairs] Spravochnik po  
kontroliu kachestva remonta traktorov. Izd. 2-e, ispr. 1 dop. 399 p.  
(Tractors--Repairing) (MIRA 8:4)

VECHTOMOV, M.I., inzh.; KUDRYAVTSEV, V.A., inzh.; MALKES, D.A., inzh.;  
OSTROVSKIY, G.I.; POVERENNYI, L.D.; SUSHKOV, P.M., inzh.;  
TYULENEV, N.Z., inzh. Prinimali uchastiye: GALIYKOVA, N.S., inzh.;  
PUTEYEV, H.P.; IZRAYLOVICH, Ye.A., inzh.; MARCHENKO, G.A., inzh.;  
MALYGINA, Z.S.; SOKOLOVA, Ye.A.; SOKOV, V.N., inzh.; TARASOVA,  
S.N.; TASHAYEV, A.L., inzh.; FILIMONOV, S.V.; DRALICH, K.F., inzh.,  
nauch. red.; NOVITCHENKO, K.M., inzh., nauchnyy red.; SIMAKOV,  
S.N., inzh., nauchnyy red.; FAKTOROVICH, Yu.A., kand. tekhn. nauk,  
nauchnyy red.; STUPIN, Ye.N., otv. red.; LUTOV, N.S., red.;  
IVANOV, V.S., red.; BAGUZOV, N.P., glav. red.; VOLCHEGORSKIY, M.S.,  
zam. glav. red.; DOBRYNIN, S.N., red.; NAZAROV, I.A., red.;  
KOLESHNIKOV, S.I., red.; MEL'NIKOV, N.P., red.; SUSNIKOV, A.A., red.;  
STAROVEROV, I.G., red.; LYTKINA, L.S., red. izd-va; GORDEYEV, P.A.,  
red. izd-va; OSENKO, L.M., tekhn. red.

[Handbook for the designer of industrial, residential, and public  
buildings and structures; organization of construction and execu-  
tion of building and assembly operations. Industrial construc-  
tion] Spravochnik proektirovshchika promyshlennykh, zhilykh i  
obshchestvennykh zdaniy i sooruzheniy; organizatsiya stroitel'-  
stva i proizvodstvo stroitel'no-montazhnykh rabot. Promyshlen-  
noe stroitel'stvo. Pod red. P.M.Sushkova. Moskva, Gos.izd-vo  
lit-ry po stroit., arkhitekt. i stroit. materialam, 1961. 372 p.

(MIRA 15:2)

(Industrial buildings)

*Rec. acc. L.*  
KUDRYAVTSEV, Vsevolod Aleksandrovich; DEMIDOVICH, Boris Pavlovich;  
BAYEVA, A.P., red.; AKHILAMOV, S.N., tekhn.red.

[Short course in higher mathematics] Kratkii kurs vysshei  
matematiki. Izd.2., perer. i dop. Moskva, Gos.izd-vo  
fiziko-matem.lit-ry, 1959. 432 p. (MIRA 12:12)  
(Mathematics)

*Kudryavtsev Vsevolod Aleksandrovich - Bibliy  
(1885-1953)*

*Vzost. Mosk. un 8: 12 p 129 D '53*

KUDRYAVTSEV, V.A.; STERLIN, D.M.

Using interfactory schools for the promotion of experience. Der.  
prom. no.3:21-22 Mr '59. (MIRA 12:4)  
(Technical education)

L 54865-55 ENT(1)/T/EWA(h) Pz-6/Peb LJP(c) AT  
ACCESSION NR: AP5014803 UR/0030/65/000/005/0086/0088  
537.311.33

AUTHOR: Kudryavtsev, V. A. (Candidate of technical sciences); Regel', A. R.  
(Doctor of physico-mathematical sciences)

TITLE: Joint studies on the problem of semiconductors

SOURCE: AN SSSR. Vestnik, no. 5, 1965, 86-88

TOPIC TAGS: semiconductor device, semiconducting material, semiconductivity,  
crystal, solid state physics, quantum theory

ABSTRACT: Multilateral cooperation in semiconductor research was agreed upon  
at a meeting of representatives of Soviet-bloc Academies of Sciences held  
in Warsaw in March 1962. The Czechoslovak Academy of Sciences was  
chosen to head all the activities encompassed by the agreement because of  
its experience in the field of zone structure and optical phenomena in semi-  
conductors. General coordination of research was entrusted to a special  
commission of representatives of the Academies of Sciences of Bulgaria,

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L 54865-65

ACCESSION NR: AP5014803

GDR, Poland, Rumania, USSR, and Czechoslovakia. Problems of organization and coordination are considered daily by the commission, which also provides the guidelines for the mutual effort.

The Czechoslovak Academy of Sciences, in addition to the general management of all the activities, also oversees a complex of studies on structure and transport phenomena. Research is carried out in several countries and covers the following areas: optical and magnetooptical phenomena in semiconductors, transport phenomena in strong magnetic fields, the effect of strong alloying on changes in zone structure, zone structure and transport in amorphous and liquid semiconductors, and recombination processes.

Research into the physical properties of semiconductor compounds is under the auspices of the Polish Academy of Sciences, which has made significant contributions in that area. Investigations of electron phenomena on semiconductor surfaces are directed by the Soviet Academy of Sciences. Research is conducted in several directions of both sci-

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ACCESSION NR: AP5014803

entific and practical interest, with special emphasis on the real and atomically pure semiconductor surfaces, the role of surface electron states in atomic and molecular adsorption phenomena, nonequilibrium processes occurring on semiconductor surfaces, transport phenomena, and the effect of surface states and external factors on the operation of semiconductor devices.

Studies of structural defects in semiconductors are directed by the Hungarian Academy of Sciences and cover lattice defects in semiconductor single crystals, the effect of vacancies and dislocations on the physical properties of semiconductors, and the theory of dislocation motion. The cooperative effort in this field was begun in 1964.

Consultations by working groups of specialists are held periodically. At these meetings, the current state of activities in a particular field are discussed, and research guidelines are recommended. In addition, there are summer sessions and symposia dealing with the basic trends in

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L 54265-66

ACCESSION RNR: AP5014803

semiconductor research. For example, a summer session was organized for theoretical physicists by the Soviet Academy of Sciences in Leningrad in 1964. Application of methods of the field theory to solid-state physics was the main topic of the session. Lectures were given by Soviet scientists on methods of the quantum field theory as applied to statistical physics, on electron spectrum characteristics in crystals, on recombination waves in semiconductors, on the theory of strongly alloyed semiconductors, and on the theory of electromagnetic phenomena. In the same year, a session was organized by the Hungarian Academy of Sciences devoted entirely to the physical properties of lattice defects in semiconductor crystals.

The problems of transport phenomena in semiconductors were considered at a symposium organized by the Polish Academy of Sciences in Warsaw at the end of 1964. In particular, the results of joint investigations in the field of transport phenomena and zone structure, chiefly of types  $A^{III}B^V$  and  $A^{II}B^{VI}$ , were presented.

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L 54065-65

ACCESSION NR: AP5014803

The final results of cooperation for 1965 will be discussed at a special meeting of the Commission to be held the second half of the year. Cooperation has made it possible to conduct more rationally investigations requiring unique and expensive equipment. For example, the Hungarian Academy has excellent facilities for electron microscopy, while the Polish Academy has equipment for research employing x-ray and paramagnetic resonance techniques. In addition, Polish and CDR scientists have agreed to build jointly a special furnace for studying pure silicon carbide.

ASSOCIATION: none

SUBMITTED: CO

ENCL: 00

SUB CODE: EC, SS

NR REF SOV: 000

OTHER: 000

ATD PRESS: 4025-F

Card 5/5

KUDRYAVTSEV, V. A.

Role of V.A.Obruchev in the creation and development of permafrost  
studies. Vent. Mosk. un. Ser. 4: Geol. 18 no.6:10-14 N-D '63.  
(MIRA 18:7)

KUDRYAVTSEV, V. A.; MELAMED, V. G.; GOLOVKO, M. D.; TRUSH, N. I.

Studying thermal conditions in the body and the foundation  
of the earth dam of the Salekhard Hydroelectric Power  
Station during its construction and exploitation. Merz1. iss1.  
no.1:255-306 '61. (MIRA 16:1)

(Salekhard Hydroelectric Power Station—Dams)

ZELEPUNIA, B.I.; RABINOVICH, A.S.; POCHINOK, F.Yu. [Pochynok, F.IA.]; NEGRASH, A.K. (Nehrash, A.A.); KUDRYAVTSOV, V.A.

Study of the antimicrobial characteristics of kanasatin 4, a preparation derived from hemp. Mikrobiol. zhur. 25 no.2:42-46 '63. (MIRA 17:10)

1. Institut mikrobiologii AN UkrSSR.

KUDRYAVTSEV, V.A. [Kudriavtsev, V.O.]

Sensitivity of pyogenic Staphylococci to imanin and novoimanin. Mikro-  
biol. zhur. 26 no.5:65-69 '64. (MIRA 18:7)

1. Institut mikrobiologii i virusologii AN UkrSSR.

KUDRYAVTSEV, V.A. [Kudryavtsev, V.O.]

Development of the resistance of pyogenic Staphylococci to im- in  
and novobiocin. Mikrobiol. zhur. 27 no.3:65-71 '65.

(MIRA 18t6)

1. Institut mikrobiologii i virusologii AN Ukr-SSR.

KUDRYAVTSEV, V.A., inzh.

Effect of the concentration of freight operations on some indices  
of the operational work in railroad transportation. Sbor. trud.  
MIZHT no.221:22-50 '64.

Methodology for the calculation of the economic efficiency of the  
concentration of freight operations in a reduced number of stations.  
Ibid.:51-62 (MIRA 18:8)

KUDRYAVTSEV, V.A.; VEDEN'KOV, Ye.P.; ROXTANEN, Zh.L.

Aftereffects of a temporary reduction in light intensity in  
tomatoes. Izv. AN Kazakh. SSR. Ser. biol. nauk 2 no.6:30-38  
N-D '64. (MIRA 18:3)



MARAKUSHEV, A.A.; KUDRYAVTSEV, V.A.

Paragenesis of hypersthene with sillimanite and its petrological significance. Dokl. AN SSSR 164 no.1:179-182 S '65.

(MIRA 18:9)

1. Dal'nevostochnyy geologicheskoy institut Sibirskogo otdeleniya AN SSSR. Submitted September 2, 1964.

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3

46(1) 16.9500

S/020/60/130/06/003/059

AUTHOR: Kudryavtsev, V.B.

TITLE: Completeness Problems for Automatic Systems 11

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 130, Nr 6, pp 1189-1192 (USSR)

ABSTRACT: The author investigates the completeness of a system of elementary finite automata (i.e. automata with finitely many states). It is shown that the problem depends essentially on the fact what is understood under the function realized by the automaton and which classes of control are admitted. According to this the author proposes several definitions of the completeness. Conditions for different completenesses are given. Four theorems and two lemmas are formulated. S.V.Yablonskiy is mentioned in the paper. There are 3 figures, and 9 references, 7 of which are Soviet, and 2 American.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova  
(Moscow State University imeni M.V.Lomonosov)

PRESENTED: October 24, 1959, by S.L.Sobolev, Academician

SUBMITTED: October 23, 1959

Card 1/1

S/020/60/132/02/08/067

AUTHOR: Kudryavtsev, V. B.

TITLE: Completeness Theorem for a Class of Automata Having no Back Couplings

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 2, pp. 272-274

TEXT: The author starts from his former paper (Ref.3). Let  $R$  be a set. As superpositions the totality of the operations are denoted by which an element of  $R$  is associated to groups of elements of  $R$ . With the aid of the notion of the superposition the closure  $[M] \subseteq R$  of the set  $M \subseteq R$  is explained. Let  $\mathcal{U}$  an arbitrary system of subsets  $U$  from  $R$ . The set  $K$  is called complete with respect to  $\mathcal{U}$  if  $[K] \cap \mathcal{U} = \bigwedge$  holds for every  $U$  of  $\mathcal{U}$ . The set  $N$  is called precomplete class with respect to  $\mathcal{U}$  if a.)  $\mathcal{U}$  is not complete with respect to  $\mathcal{U}$ ; b.) for every element  $a$  which does not belong to  $N$ ,  $[a \cup N]$  forms a set complete with respect to  $\mathcal{U}$ . Let  $\mathcal{U}$  be the totality of the classes precomplete with respect to  $\mathcal{U}$ . Theorem 1: A subset  $G$  of elements of  $R$  is complete with respect to  $\mathcal{U}$  if and only if it is entirely contained in none of the pre-complete classes of the system  $\mathcal{U}$ .

Card 1/3

S/020/60/132/02/08/067

Completeness Theorem for a Class of Automata Having no Back Couplings

Let  $\mathcal{N}'$  be a system of sets  $N'$ ; each of them is not complete with respect to a system  $\mathcal{U}'$  of subsets  $U'$  of  $R$ ; let none of the sets  $N'$  be contained in another set of  $\mathcal{N}'$ . Let the set  $G'$  from  $R$  be complete with respect to  $\mathcal{U}'$  if and only if it is completely contained in no set  $N'$  of the system  $\mathcal{N}'$ .

Theorem 2: 1.) Every set  $N'$  is a precomplete class with respect to  $\mathcal{U}'$  2.) in  $R$  there exists no class precomplete with respect to  $\mathcal{U}'$  which is not contained in  $\mathcal{N}'$ ; 3.) every subset which is not precomplete with respect to  $\mathcal{U}'$  can be extended to a class which is precomplete with respect to  $\mathcal{U}'$ .

Let  $P_2$  be the set of all pairs  $(f, k)$  where  $f \in P_2$ ,  $k = 0, 1 \dots$  (Ref.2). The number  $t$  in the pair  $(f, t)$  can be understood as the time of calculation of the value of the function  $f$ . The operations of superposition are inductively introduced in  $P_2$  (see R. Ye. Krichevskiy (Ref.4)).  $P_2$  is decomposed into a system  $\mathcal{U}''$  of subsets  $U''$ , where  $\bigcup U'' = P_2$ ,  $U'' = \{(f_0, k)\}$ , where  $f_0$  is an arbitrary fixed function from  $P_2$ . In theorem 3 the author states that a set of elements  $F = \{(f_j, t_j)\}$  is complete with respect to  $\mathcal{U}''$  if and only if  $F$  is

Card 2/3

S/020/60/132/02/08/067

Completeness Theorem for a Class of Automata Having no Back Couplings  
not contained in eleven certain (explicitly given) sets.

Theorem 4: From every set complete with respect to  $\mathcal{U}$  there can be  
separated a subset complete with respect to  $\mathcal{U}$  which does not contain  
more than 5 elements.

The author mentions A. V. Kuznetsov.

There are 4 references: 3 Soviet and 1 American.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M. V.  
Lomonosova (Moscow State University imeni M. V. Lomonosov).

PRESENTED: January 9, 1960, by P. S. Aleksandrov, Academician

SUBMITTED: February 29, 1959

Card 3/3

KUDRYAVTSEV, V.B. (Moskva)

Completeness theorem for a certain class of automata without  
feedback. Probl.kib. no.8:91-116 '62. (MIRA 16:4)  
(Automatic control)

L 14364-63

EWI(d)/FCC(w)/BDS

AFETC

IJP(C)

ACCESSION NR: AP3CO3839

3/0020/63/151/003/0493/0496

AUTHOR: Kudryavtsev, V. B.

54  
53

TITLE: Cardinality of sets of pre-complete classes of certain functional systems, connected with automata.

16

SOURCE: AN SSSR. Doklady\*, v. 151, no. 3, 1963, 493-496

TOPIC TAGS: automaton, set cardinality

ABSTRACT: Considered are questions connected with the completeness of certain functional systems which describe the properties of automata. The conditions of completeness are formulated in terms of pre-complete classes, and the effectiveness of these conditions depends on the cardinality of the collection of all the pre-complete classes. It is shown that the cardinality of the collection of all pre-complete classes of bounded determinant operators is equal to the continuum, and, analogously, the cardinality of the class of determinant operators is equal to the hypercontinuum. "I express my deep gratitude to O. B. Lupanov for direction and to S. Y. Yablonskiy for comments." Orig. art. has: 7 formulas and 2 figures.

ASSOCIATION: Moscow St. Un.

1/21

Card

L 56561-65 EMT(1)/EWA(h) En-4/Peb/Pi-4  
 ACCESSION NR: AP5015255

UR/0286/65/000/009/0036/0036

AUTHORS: Kudryavtsev, V. B.; Gerasimov, L. I.

19  
 B

TITLE: Method for tuning the frequency of tuning fork oscillators. Class 21,  
 No. 170557

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 36

TOPIC TAGS: oscillator, tuning fork

ABSTRACT: This Author Certificate presents a method for tuning the frequency of tuning fork oscillators. For a high degree of smoothness in the frequency tuning, the tuning is accomplished by shifting the elementary particles of the metal under the effect of an electrostatic field to or from the tuning fork. This changes its equivalent mass to the magnitude corresponding to the nominal frequency of the tuning fork generator.

ASSOCIATION: Leningradskaya voyennaya inzhenernaya krasnoznamennaya akademiya im. Mozhayukogo (Leningrad Military Engineering Academy)

SUBMITTED: 20Jun63

ENCL: 00

SUB CODE: EC

NO REF SOV: 000

OTHER: 000

Card 1/181



L 56043-65 ENT(d) IJP(c)

ACCESSION NR: AT5014619

UR/2582/65/000/013/0045/0074

AUTHOR: Kudryavtsev, V. B. (Moscow)

8  
B+1

TITLE: The power of groups of precomplete groups of certain functional systems related to automata

SOURCE: Problemy kibernetiki, no. 13, 1965, 45-74

TOPIC TAGS: automaton completeness, automaton functional characteristic, functional characteristic completeness, completeness criterion, finite automaton, control theory

ABSTRACT: The paper discusses the problem of completeness of automata. In engineering practice, the feasibility of an automaton with an arbitrary specified behavior reduces to the question of the existence, among the permissible schemes, of a design which realizes the automaton under consideration, i.e., to the question of completeness of the initial system of automata. This problem may be reduced to the completeness problem of a functional system. The rest of the paper refers to finite automata. Using the transformation of the input sequence into an output sequence as the functional characteristic of the automaton, the problem under discussion is reformulated in the following manner: Let us investigate the

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L 56043-65

ACCESSION NR: AT5014619

group  $P$  of functional characteristics of all finite automata containing superposition and feedback operations; an arbitrary subgroup  $M$  is then chosen within  $P$ . For which choices of  $M$  can one generate an arbitrary functional characteristic  $P$ ? The basic result of the paper is contained in the proof that the power of all precomplete groups in  $P$  is equal to the continuum, i.e., coincides with the power of the group of all subgroups of  $P$ . In addition, the article proves that  $P$  contains arbitrarily extended independent complete systems. Consequently, no effective completeness criterion exists in terms of precomplete groups. For simplicity's sake, the article assumes throughout that the input and output variables of the functional characteristics can take only the values of 0 and 1. Orig. art. has: 133 formulas and 25 figures.

ASSOCIATION: None

SUBMITTED: 23Sep63

ENCL: 00

SUB CODE: IE, DP

NO REF SOV: 010

OTHER: 002

Card

2/2

ACC NR: AM6027423

Monograph

UR/

Yablonskiy, Sergey Vsevolodovich; Gavrilov, Gariy Petrovich; Kudryavtsev, Valeriy Borisovich

Functions of the algebra of logic and Post's classes (Funktsii algebrы logiki i klassy Posta) Moscow. Izd-vo "Nauka", 1966. 119 p. illus., biblio., index. 10,000 copies printed.

Series note: Matematicheskaya logika i osnovaniya matematiki

TOPIC TAGS: ~~logic algebra~~, ~~logic algebra function~~, cybernetics, *algebraic logic*, *mathematic logic, class theory*

PURPOSE AND COVERAGE: This book is intended for all those interested in the algebra of logic and theoretical cybernetics. The work is based on Post's work in the algebra of logic and is essentially a summary of his "Two-valued Iterative Systems", first published in 1941. The general concept of proof, the formulation of many of the lemmas, and some of the reasoning is borrowed from Post's work. However, in an effort to simplify the presentation, the authors obtain a structure for closed classes of logic algebra functions which is simpler than Post's.

TABLE OF CONTENTS [abridged]:

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Card 1/2

UDC: 512.8+164

ACC NR: AM6027423

PART I.

- Ch. I. Basic concepts of the algebra of logic -- 10
- Ch. II. Self-duality, monotonic and linear functions of the algebra of logic --22
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OTH REF: 017/

Card 2/2

KUDRYAVTSEV, Vasilii Dmitriyevich

(Irkutsk State U imeni Zhdanov) - Academic degree of Doctor of Pedagogical Sciences, based on his defense, 24 December 1954, in the Council of Sci Res Inst of Methods of Teaching of the Acad of Pedagogical Sciences RSFSR, of his dissertation entitled: "Teaching of the Russian Language in the Buryat-Mongol Seven-year School."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 1, 7 Jan 56, Byulleten' MVO SSSR, Uncl.  
JPRS/NY-548

*Kudryavtsev, V.D.*

109-10-12/19

AUTHORS: Fabrikov, V.A., Kudryavtsev, V.D., and Gushchina, Z.M.

TITLE: Nickel-Copper Ferrites having a Narrow Absorption Line at  
Ultra-high Frequencies (Nikel'-Mednye ferrity s uzkoj  
rezonansnoy krivoy poryoshcheniya na sverkhvysokikh chastotakh)

PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol.II, No.10,  
pp. 1299 - 1300 (USSR)

ABSTRACT: Some nickel-copper ferrites were produced which, when  
operated at frequencies of the order of  $10^{10}$  c.p.s., gave an  
attenuation ratio of 125 for the two opposite directions of  
the magnetising field. Thus, it was found that over a band-  
width of  $\pm 3\%$ , the direct losses in a rectangular waveguide  
were 0.5 db, while the reverse losses were more than 20 db.  
The authors thank Corresponding Member of the Ac.Sc.USSR  
A.A. Pistol'kors for his constant attention.  
There are 1 photograph and 2 **references**.

SUBMITTED: July 16, 1957.

AVAILABLE: Library of Congress.  
Card 1/1

24(3)

AUTHORS:

Fabrikov, V. A., Kudryavtsev, V. D.,  
Gushchina, Z. M.

SOV/48-23-3-17/34

TITLE:

Ferrites With Intense Saturation Magnetization and a Narrow  
Resonance Absorption Curve at Superhigh Frequencies (Ferrity  
s bol'shoy namagnichennost'yu nasyshcheniya i uzkoj rezonans-  
noy krivoy pogloshcheniya na sverkhvysokikh chastotakh)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959,  
Vol 23, Nr 3, pp 372-376 (USSR)

ABSTRACT:

In the present paper the authors investigated Ni-Cu-ferrites  
with admixtures of cobalt and small quantities of manganese,  
which had been added in order to attain a higher electric  
resistance of the material in direct current (Ref 12).  
Saturation magnetization, density, electric resistance in  
direct current, width of the resonance absorption curve on  
the frequency of 9,350 megacycles, working characteristics  
of ferrites in a valve device of the resonance type in the  
same range of frequency, as well as the microstructure of the  
material were measured. The results obtained in connection  
with the investigation of the ferromagnetic resonance of  
spherical samples in the rectangular resonator

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Ferrites With Intense Saturation Magnetization and a Narrow Resonance Absorption Curve at Superhigh Frequencies SOV/48-23-3-17/34

are given in figure 1. The width of the resonance curve depends to a considerable extent on the copper content. Figure 2 shows by means of an experimentally found curve the effect of Co admixtures exercised upon the width of the resonance curve of Ni-Cu-ferrites. The dependence on the temperature of sintering is given in figure 3. Compositions in a waveguide valve by relations of the wave extinction device (in decibels) which correspond to two opposite directions of propagation (Ref 7). All Ni-Cu-ferrites can be divided into two groups with respect to microstructure. In the case of a substitution of less than 14 % nickel by copper the ferrites usually have fine-grained structure with an average size of grains amounting to 10  $\mu$ . If the substitution amounts to more than 14 %, the average size of grains varies between 45 and 55  $\mu$ . Figures 4 and 5 show photographs of typical structures of both types as well as experimentally found curves. The authors thank A. A. Pistol'kors for the interest he displayed. There are 5 figures and 16 references, 2 of which are Soviet.

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30138

S/194/61/000/007/067/079  
D201/D305

9.2571(1147)

AUTHORS:

Gushchina, Z.M., Fabrikov, V.A. and Kudryavtsev, V.D.

TITLE:

Temperature characteristics of ferrite elements in SHF devices

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1961, 49, abstract 7 I298 (V sb. Ferrity. Fiz. i fiz. khim. svoystva, Minsk, AN SSSR, 1960, 522-529)

TEXT: A study has been made of the temperature characteristics of ferrite elements in switching devices with the rotation of the polarization plane. It was shown that by choosing the optimum operating conditions, it is possible to obtain a good temperature stability (TS) of the rotation angle of the polarization plane of the wave:  $45 \pm 2.5^\circ$  in the temperature range  $-60$  to  $+100^\circ\text{C}$ . The admixture of Cu to the Mg-Mn ferrites improves the TS of the ferrite

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Temperature characteristics...

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D201/D305

elements, operating in medium and strong magnetizing fields. An important method in obtaining the TS of ferrite elements is the use of compensating circuits. The procedure is given of measuring the temperature characteristics of ferrite elements. 2 references.

[Abstracter's note: Complete translation]

X

Card 2/2

9.2571

24.7900 (1055, 1144, 1163)

30067

S/048/61/025/011/012/031  
B104/B102

AUTHORS:

Fabrikov, V. A., Kozlov, V. I., Kadeyev, V. T., and  
Kudryavtsev, V. D.

TITLE:

Experimental study of effects on yttrium ferrite single  
crystals, which are related to nutational oscillations of  
magnetization of the material on ferromagnetic resonance

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 25,  
no. 11, 1961, 1367 - 1371

TEXT: Nonlinear gyromagnetic effects in ferrites may, in first approxima-  
tion, be divided into two groups. The first group consists of those gyro-  
magnetic effects which are related to the frequency modulation, the other  
gyromagnetic effects related to the angle modulation of the precessional  
motion. The effects examined on yttrium garnet single crystals belong to  
the second group. The authors studied the interaction of two electromag-  
netic signals in the specimen: a h-f signal (10,000 Mc) polarized at right  
angles to the direction of magnetization, and a l-f signal (0.5 - 8 Mc)  
polarized in the direction of magnetization. The magnetic field  
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Experimental study of effects...

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S/048/61/025/011/012/031  
B104/B102

directions in the experiments are shown in Fig. 1. The theoretical aspect of the problem under consideration had been previously studied by V. A. Fabrikov (Radiotekhnika i elektronika, 3, no. 2, 190 (1958); 4, no. 7, 1203 (1959); 6, no. 10, 1707 (1961)). Fig. 3 bases on these papers to show the complex susceptibility  $\chi$  of a magnetized ferrite as a function of the constant magnetizing field. This function was calculated with the following formula derived in the previous papers:

$$\chi_{\Omega} = - \frac{Mh_1^2}{(\Delta H)^3} \frac{x}{1+x^2} \frac{1+x^2-y^2-2iy}{(1+x^2-y^2)^2+4y^2} \quad (2)$$

Here, the magnetic moment  $M = \text{const}$ ;  $h_1$  is the amplitude of the circularly polarized h-f field;  $\Delta H = 1/\gamma T_2$  is the half-width of the ferromagnetic resonance line;  $\gamma = 2.8 \text{ Mc/oer}$  is the gyromagnetic ratio of the electron spin;  $x = (H_{\text{res}} - H_c)/\Delta H$  and  $y = \Omega T_2$ ; and  $\chi = \chi' + i\chi''$ . The investigation was conducted with an yttrium ferrite single crystal where the width of the ferromagnetic resonance line was  $\sim 2$  oersteds. The spherical specimens (0.5 - 1 mm in diameter) were placed in the center of a coil with several turns. The coil was connected to a resonant circuit (0.5 - 10 Mc). To

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